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	Application Number	09/938,048		
TRANSMITTAL	Filing Date	August 23, 2001		
FORM	First Named Inventor	C. Frank Bennett		
	Art Unit	1635		
(to be used for all correspondence after initial filing)	Examiner Name	Sean McGarry		
Total Number of Pages in This Submission	Attorney Docket Number	ISIS0172-100 (ISPH-0567)		

Fee Transmittal Form	Total Hamber of Fages in Time Submits	0.0	Attorney Docket IV	umber	10100172-1	100 (13/ 11-030/)	
Fee Attached	ENCLOSURES (check all that apply)						
General Communication to TC (Appeals and Interferences Appeal Communication to TC (Appeal Native, Brief, Reply Brief) Petition to Convert to a Provisional Application Provisional Application Provisional Application Provisional Application Provisional Application Provisional Application Status Letter Other Enclosure(s) (plass dentify below): - Table A - Statement Under 37 CFR 3.73(b) - executed Assignment Request for Refund Status Letter Table A - Statement Under 37 CFR 3.73(b) - executed Assignment Return Postcard Remarks Regurated Postcard Regurated Postca	Fee Transmittal Form	☐ Drawing(s	3)		After Allowance Communication to TC		
Amendment / Reply	Fee Attached	Licensing	Licensing-related Papers				
After Final	Amendment / Reply	Petition	Petition				1.
Affidavits/declaration(s)	After Final		Provisional Application				
Extension of Time Request Extension of Time Request	Affidavits/declaration(s)	Power of Change of	Power of Attorney, Revocation Change of Correspondence Address			etter	
Express Abandonment Request Information Disclosure Statement Infor	Extension of Time Request	Terminal	Disclaimer				
Certified Copy of Priority Document(s) Remarks Reply to Missing Parts Incomplete Application Reply to Missing Parts Under 37 CFR1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm	Express Abandonment Request	1= '		i	- Statement - executed A	Assignment	
Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Cozen O'Connor, P.C. Signature Printed Name Paul K. Legaard Date March 24, 2005 Reg. No. 38,534 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Signature	Information Disclosure Statement		ndscape Table on CD		- Return Pos	stcard	
Incomplete Application Reply to Missing Parts under 37 CFR1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Cozen O'Connor, P.C. Signature Printed Name Paul K. Legaard Date March 24, 2005 Reg. No. Reg. No. 38,534 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Signature		Remarks					┨
Firm Cozen O'Connor, P.C. Signature Printed Name Paul K. Legaard Date March 24, 2005 Reg. No. 38,534 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Signature	Incomplete Application Reply to Missing Parts						
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Date March 24, 2005 Reg. No. 38,534 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Signature	Signature	12	PKD				
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Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Signature	CERTIFICATE OF TRANSMISSION/MAILING						
	Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450,					al 0,	
Typed or printed name Paul K. Legaard Date March 24, 2005	Signature	Signature QQQQ					
	Typed or printed name Paul K.	Legaard			Date	March 24, 2005	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents Washington, DC 20231

Sir:

POWER OF ATTORNEY WITH REVOCATION AND

	CHANGE O	F CORRESPONDENCE	ADDRESS
Ιh	nereby revoke all previou	s powers of attorney or auth	norizations of agent given in the
applicatio	ns identified in Table A	attached hereto, and appoin	t
	Practitioners at Cus	stomer Number: 34138	PLACE CUSTOMER NUMBER BAR CODE LABEL HERE
as my/our	attorney(s) or agent(s) to	prosecute the application	identified above, and to transact
all busine	ss in the United States Pa	atent and Trademark Office	connected therewith.
A to:	Practitioners at Cu am the: Applicant/Inventor Assignee of record	stomer Number: 34138	applications identified in Table atement under 37 CFR 3.73(b)
	is enclosed.)	Respectfully submitted, ISIS PHARMACEUTIO	CALS, INC.
Date:	3/10/00	Ву:	

Name: Laura A. Handley Title: Vice President



TABLE A

1635	oke, Tracy Ann 1635	Tracy Ann 1635
1635	Tracy Ann 1635	Bennett, Crooke, Tracy Ann 1635
	Winett Windemore	
	wyatt, vivicilioic	Manoharan, Wyatt, Vivlemore Modulation Of mRNA Processing
-	Baker, Monia,	Baker, Monia,
	МсКау, Капаз	McKay, Karras
Not yet 1635 Methods Of Obtaining Active Antisense	a, Not yet 1635	Not yet 1635
determined Compounds	ov, Giddings, determined	determined
Sean 1635 Use of Antisense Oligonucleotide Libraries For	Sean 1635	Bennett, Borchers, Sean 1635
McGarry Identifying Gene Function	McGarry	Karras
James 1635 Antisense Modulation Of MYD88 Expression	e James 1635	James 1635
	Schultz	Cobultz
Comita		
Collection	- Colimited	Scrimitz
Schultz	Schultz	Schiiltz
ned 3y	as Not yet ddings, determined chers, Sean McGarry e James Schultz	as Not yet ddings, determined chers, Sean McGarry e James schultz
peu k	as Not yet ddings, determined chers, Sean McGarry e James Schultz	as Not yet ddings, determined chers, Sean McGarry e James Schultz
Vivlemore Not yet determined Sean McGarry James Schultz	w yaut, a, as eeva, ddings, chers,	Wyatt, a, as seva, ddings, chers,
	Baker, Monia, McKay, Karras Freier, Matveeva, Tsodikov, Giddings, Wyatt Bennett, Borchers, Karras	Baker, Monia, McKay, Karras October 15, 2003 Freier, Matveeva, Tsodikov, Giddings, Wyatt August 23, 2001 Bennett, Borchers, Karras September 26, 2003 Karras, Dobie

MAR 2 8 2005 &

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents Washington, DC 20231

Sir:

STATEMENT UNDER 37 CFR 3.73(b)

Applicant, ISIS Pharmaceuticals, Inc., a corporation, states that it is:

X the assignee of the entire right, title, and interest of the applications identified in Table A attached hereto.

The extent (by, percentage) of its ownership interest is 100% in the patent applications identified in Table A by virtue of:

a copy of the pertinent assignment from the inventor(s) of the patent applications identified in Table A is enclosed herewith.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Respectfully submitted,

ISIS PHARMACEUTICALS, INC.

Date: 3/16/05

Name: Laura A. Handley

Title: Vice President

PATENT

DOCKET NO.: ISPH-0567

ASSIGNMENT

WHEREAS, We, C. Frank Bennett, of Carlsbad, State of California; Alexander H. Borchers, of Encinitas, State of California and James G. Karras, of San Marcos, State of California, have invented a certain invention entitled Use of Antisense Oligonucleotide Libraries for Identifying Gene Function, for which we have made application for Letters Patent of the United States, said application having been filed August 23, 2001 and assigned Application No. 09/938,048; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions

DOCKET NO .: ISPH-0567

PATENT

of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said nominees, assigns, successors, its assignee, representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of. Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is

DOCKET NO .: ISPH-0567

PATENT

to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and

seals.

DATED: 11-08, 2001

C. Frank Bennet

State of California

ss.

County of San Diego

On this May of More May 2001, before me, the undersigned, a Notary Public for the state, personally appeared C. Frank Bennett, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

PAMELA GROOMS
Commission # 1296342
Notary Public - California
San Diego County
My Comm. Bipires Mar 8, 2005

Signature of Notary

DOCKET NO.: ISPH-0567

PATENT

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SAMED.	. 11	115		2001
DATED:		1 1 1	_′	

Alexander H. Borchers

State of California

ss.

County of San Diego

On this /5h day of November. 2001, before me, the undersigned, a Notary Public for the state, personally appeared Alexander H. Borchers, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.

righature of Notary

DATED: 11/15 , 2001

James G. Karras

State of California

ss.

County of San Diego

LANE B.D. SCHWARTZ

Commission # 1196197

Notary Public - California

San Diego County

My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

Signature of Notary